

11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209 501-455-3233 Fax 501-455-6118

27 November 2012

Jim Fleer Oxford Environmental & Safety, Inc 14348 Nieman Rd. Overland Park, KS 66221

**RE: Arkwood Monthly Sampling** 

SDG Number: 1211204

Enclosed are the results of analyses for samples received by the laboratory on 20-Nov-12 10:30. If you have any questions concerning this report, please feel free to contact me.

## Sample Receipt Information:

Custody Seals						
Containers Correct	~					
COC/Labels Agree	<u> </u>					
Preservation Confirmed	~					
Received On Ice						
Temperature on Receipt	2.0°C					

Sincerely,

Norma James President

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Date Received: 20-Nov-12 10:30



### **CASE NARRATIVE**

Sample Delivery Group - 1211204

#### Semivolatiles Analysis:

The three compounds labeled (surr) on the attached final report are "surrogates." Recovery of surrogates is for lab use only to determine the effectiveness of the extraction procedure; surrogate recoveries are not analytical results. The three surrogate compounds are as follows: 2,4,6-tribromophenol, 2-fluorophenol, and Phenol-d5.

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Lab Number: 1211204-01 Sample Name: Mouth **Date/Time Collected:** 11/19/12 8:20 Water Sample Matrix:

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	Method
Pentachlorophenol	ug/L	28.8		11/21/12 14:50	A211253	8270D
2,4,6-Tribromophenol [surr]	%	94.0		11/21/12 14:50	A211253	8270D
2-Fluorophenol [surr]	%	54.1		11/21/12 14:50	A211253	8270D
Phenol-d5 [surr]	%	38.0		11/21/12 14:50	A211253	8270D

### **ANALYTICAL RESULTS**

Lab Number: 1211204-02 Sample Name: Weir Date/Time Collected: 11/19/12 8:02 Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	Method
Pentachlorophenol	ug/L	< 5.00		11/21/12 14:08	A211253	8270D
2,4,6-Tribromophenol [surr]	%	88.9		11/21/12 14:08	A211253	8270D
2-Fluorophenol [surr]	%	52.7		11/21/12 14:08	A211253	8270D
Phenol-d5 [surr]	%	36.5		11/21/12 14:08	A211253	8270D

Arkansas Analytical

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**QUALITY CONTROL RESULTS** 

#### Semivolatiles - Quality Control Analyzed: 19-Nov-12 11:13 By: TB

	Ar	nalyzed: 1	.9-Nov-	12 11:13 I	Ву: ТВ					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch A211253 - 3510C Modified										
Blank (A211253-BLK1)				Prepared 8	& Analyzed	: 19-Nov-12				
Pentachlorophenol	ND	5.00	ug/L							
Surrogate: 2,4,6-Tribromophenol	31.3		"	40.0		78.1	19.3-113			
Surrogate: 2-Fluorophenol	21.7		"	40.0		54.2	<i>13-75.4</i>			
Surrogate: Phenol-d5	16.3		"	40.0		40.7	13.1-75.2			
LCS (A211253-BS1)				Prepared 8	& Analyzed	: 19-Nov-12	!			
Pentachlorophenol	37.9	5.00	ug/L	40.0		94.8	48.5-124			
Surrogate: 2,4,6-Tribromophenol	38.2		"	40.0		95.4	19.3-113			
Surrogate: 2-Fluorophenol	21.9		"	40.0		54.6	13-75.4			
Surrogate: Phenol-d5	17.0		"	40.0		42.6	13.1-75.2			
LCS Dup (A211253-BSD1)				Prepared 8	& Analyzed	: 19-Nov-12	<u>!</u>			
Pentachlorophenol	38.3	5.00	ug/L	40.0		95.7	48.5-124	0.945	25	
Surrogate: 2,4,6-Tribromophenol	33.1		"	40.0		82.7	19.3-113			
Surrogate: 2-Fluorophenol	22.1		"	40.0		<i>55.2</i>	13-75.4			
Surrogate: Phenol-d5	18.0		"	40.0		44.9	13.1-75.2			
Matrix Spike (A211253-MS1)	Sour	Prepared 8	& Analyzed	: 19-Nov-12	1					
Pentachlorophenol	42.4	5.00	ug/L	40.0	ND	106	29.2-146			
Surrogate: 2,4,6-Tribromophenol	37.6		"	40.0		94.1	19.3-113			
Surrogate: 2-Fluorophenol	24.4		"	40.0		61.1	13-75.4			
Surrogate: Phenol-d5	19.0		"	40.0		47.4	13.1-75.2			

All Analysis performed according to EPA approved methodology when available:

SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods, 20th Edition. Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by:

Norma James President Arkansas Analytical



11701 Interstate 30, Bldg. 1, Ste. 115

Little Rock, AR 72209 PHONE: 501-455-3233 FAX: 501-455-6118

# **CHAIN OF CUSTODY RECORD**

CLIENT INFORMA	ATION						Project Des	cription	Turnaround Time	e Preservation Codes:							
Oxford Environmental & Safety, Inc.				P	Arkwood Month	y Sampling	24 Hour	1. Cool,	Degrees (	Centigrad	igrade 4. Thiosulfate for Dechlorination						
14348 Nieman Rd.				48 Hour			48 Hour	2. Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> ), pH < 2 5. H					5. Hydr	Hydrochloric Acid(HCl)			
Overland Park KS 66221					Reporting Inf	ormation	72 Hour	3. Nitric	Acid (HNO	O <sub>3</sub> ), pH <	2		6. Sodiu	m Hydroxide (	NaOH), pH > 12		
							Telephone: 913	-706-3422	Routine (5 Day)		TEST PARAMETERS					Bottle Type Code	
Attn: Jim Fleer						Е	mail: jfleer@oxfo	rdeands.com	Preservative Code:	1							G = Glass; P = Plastic
									Bottle Type:	GA				-			V = Septum; A = Amber
Sampler(s) Signature  James  Sampler(s) Printe						Pleer	Pentachlorophenol (8270D)							Arkansas Analytical Work Order Number:			
Field	SAMPLE CO	DLLECTION			Number			SAMPLE		ach 0D)							
Number	Date/s	Time/s	Grah	Comp	of	Sample Matrix	IDENTIF	ICATION/ DES	CRIPTION	Pent 827							12/1204
	11/19/2012	9120		Comp				TOTAL DEC				_					0\
	11/19/2012	8102	X		1		Mouth			X							02
	111111111111111111111111111111111111111	0102	Х		1	Water	Weir	1		X							02
	7																
			-	-	-												
1. Relinquished by: (Signature) Date/Time 2. Received				ceived	by: (Si	gnature)	SAMPLE	CONDITION UPON		REMARKS / SAMPLE COMMENTS							
Janu 20h 11/19/2012			_	- 1		CUSTODY SEALS:     CONTAINERS CORRECT:					MS/MSD Collected from: Wer						
			1	1	IN										Mouth		
			1	701/151							0	2017	0 11	7.85			
				3. COC/LABELS AGREE:				Yes	No						7.16		
3. Relinquished by:	(Signature)	Date/Time		4. Received by lab: (Signature)				4. PRESERVAT	TON CONFIRMED:	CONFIRMED:YesNo			Oslone: 23.3 Temp 15.40 14.61				
3. Relinquished by: (Signature)  Date/Time  1. 20.12  4. Receive		10,00				(a)		5. RECEIVED ON ICE:		Yes	No	n.	ished of	, 2.64	DO 5	, 209.1	26.6
		MI	NA	XI VA	6. TEMPERATU	JRE ON RECEIPT:	200										
12000		110		1	ANTO	1	amisv	FOF	R COMPLETION BY	LAB ONI	LY						
Revision 1 12/1/10		JL			V		V V V										